



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T51910230172EL

Date: MAY 15, 2019

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DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

XINGDA INDUSTRIAL PARK, CHENGHAI DISTRICT,
SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Name of Product/Item : RADIO CONTROL TOYS
Item No. : E354-003
Test Item No. : E354-003
Supplier : DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Manufacturer : DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Country of Origin : CHINA
Labeled Age Grading : 6+
Request Age Grading : 3+
Test Age Grading : 3 YEARS AND ABOVE
Packaging : Gift Box
Power Source for Test : 1 x 4.8V 400mAh "AA" "NI-MH" rechargeable battery pack for farm tractor
2 x 1.5V "LR6" size batteries (Duracell) for controller
Date of receipt : APR 12, 2019 Number of sample: 2
Testing Period : APR 12, 2019 TO MAY 15, 2019
Date of information receipt : MAY 13, 2019



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Test Requested	Conclusion
1. Test for compliance with the electric toys safety requirement with reference to EN 62115: 2005 + A12: 2015.	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



Xiao Yongbo, Spring
Supervisor
CNAS Approved Signatory



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EN 62115 SPECIFICATION REQUIREMENTS & TEST RESULTS

Clause	Assessment
1. Scope	--
2. Normative references	--
3. Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Selection of tests	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.)	
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength at operating temperature	Pass
11. Moisture resistance	Pass
12. Electric strength at room temperature	Pass
13. Mechanical strength	Pass
14. Construction	Pass
15. Protection of cords and wires	Pass
16. Components	Pass
17. Screws and connections	Pass
18. Creepage distances and clearances	Pass
19. Resistance to heat and fire	Pass
20. Toys incorporating lasers and or light emitting diodes	Pass
Other Radiation, Toxicity and similar hazards	--
(Remark: It is the manufacture's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
Toys with an integrated field source shall comply with Annex ZC	N/A
(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	

N/A = Not Applicable



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DETAILS OF TEST RESULTS

Clause 6 Criteria for reduced testing

- 6.2 The farm tractor was not under the exemption conditions stated in this clause, therefore, clauses 7, 9 to 20 shall be applicable to be tested.
- 6.2 The controller was under the exemption conditions stated in this clause, therefore, only clauses 7, 9, 11.1, 13, 14, 15.2, 16, 17.1, 18 and 20 shall be applicable to be tested.

Clause 9 Heating and abnormal operation

- 9.1 No electronic protective circuit prevent the hazardous conditions listed in 9.9 or dangerous malfunction during the tests of 9.8.
- 9.2 The farm tractor was placed on the floor of the test corner during normal and abnormal operation.
The controller was freely suspended during normal and abnormal operation.
- 9.3 The rechargeable battery pack of farm tractor was charged by the USB until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.8-21.5

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	14.8	45K

- 9.3 The farm tractor was operated by 1 x 4.8V 400mAh "AA" "NI-MH" rechargeable battery pack and the controller was operated by 2 x 1.5V "LR6" size batteries (Duracell) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.9-20.6

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
<u>Farm tractor</u>		
Battery surface	14.5	45K
Enclosure (near PCB)	2.2	50K
Enclosure (near motor for front wheel)	1.6	50K
Enclosure (near motor for rear wheel)	3.8	50K
Enclosure (near motor for hopper)	1.0	50K
Enclosure (near speaker)	0.1	50K
Surface of LED	0.2	50K
<u>Controller</u>		
Battery surface	3.4	45K
Enclosure (near LED&PCB)	0.3	50K



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- 9.6 The farm tractor was operated by 1 x 4.8V 400mAh "AA" "NI-MH" rechargeable battery pack with accessible moving parts (Front wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.5-20.8

Location	Temperature Rise (K)	Limit (K)
Battery surface	0.3	45K
Enclosure (near PCB)	0.1	50K
Enclosure (near motor for front wheel)	0.5	50K
Enclosure (near motor for rear wheel)	1.8	50K
Enclosure (near motor for hopper)	0.2	50K
Enclosure (near speaker)	0.5	50K
Surface of LED	0.4	50K

- 9.6 The farm tractor was operated by 1 x 4.8V 400mAh "AA" "NI-MH" rechargeable battery pack with accessible moving parts (Rear wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.1-21.3

Location	Temperature Rise (K)	Limit (K)
Battery surface	1.0	45K
Enclosure (near PCB)	0.9	50K
Enclosure (near motor for front wheel)	0.8	50K
Enclosure (near motor for rear wheel)	0.4	50K
Enclosure (near motor for hopper)	0.6	50K
Enclosure (near speaker)	0.5	50K
Surface of LED	0.1	50K

- 9.6 The farm tractor was operated by 1 x 4.8V 400mAh "AA" "NI-MH" rechargeable battery pack with accessible moving parts (Hopper) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.8-21.2

Location	Temperature Rise (K)	Limit (K)
Battery surface	0.5	45K
Enclosure (near PCB)	0.7	50K
Enclosure (near motor for front wheel)	0.6	50K
Enclosure (near motor for rear wheel)	0.4	50K
Enclosure (near motor for hopper)	1.7	50K
Enclosure (near speaker)	0.5	50K
Surface of LED	0.4	50K

- 9.8 The unit was evaluated and found to comply with the relevant requirement.



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Clause 16 Components

16.2 The sample tested was not fitted with a mercury switch or thermal cut-out which could be reset by a soldering operation.

Clause 19 Resistance to heat and fire

19.2.1 Glow-wire test (550 °C) in accordance with IEC 60695-2-11

Location / Part

Result / Observation

Farm tractor

The battery compartment cover

No flame, no molten drop

Detail of Radiation, toxicity and similar hazards

LED in this unit shall be classified Class 1 in accordance with IEC 60825-1.

Part under test	Wavelength		Emission Duration	Measured Accessible Emission Level (MAEL)	Limit	MAEL / Limit	Comment
White LED of farm tractor	a)	450.0 nm	100 sec.	0.2 mJ	3.9 mJ	<1	Pass
		564.0 nm	100 sec.	0.1 mJ	743.1 mJ		
	b)	450.0 nm	100 sec.	30.2 μW	4937.9 μW	<1	Pass
		564.0 nm	100 sec.	26.3 μW	4937.9 μW		
Red LED of controller	a)	661.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	661.0 nm	100 sec.	82.6 μW	390.0 μW	<1	Pass
Red LED on USB	a)	631.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	631.0 nm	100 sec.	38.4 μW	390.0 μW	<1	Pass

Remark: a) For Retinal Photochemical Hazard
b) For Retinal Thermal Hazard
N/A = Not Applicable



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Sample Photo:



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